

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application:

**Listing of Claims:**

1. (Withdrawn) A method to hyposensitize a mammal, said method comprising:
  - (a) obtaining an immunogenic composition comprising multimeric profilin; and
  - (b) administering an effective dose of the composition successively in incremental doses until the mammal is hyposensitized.
2. (Withdrawn) The method of claim 1, wherein multimeric profilin is selected from a group consisting of naturally occurring, synthetic, or recombinantly made profilin
3. (Withdrawn) The method of claim 2, wherein the profilin occurs as complexes of homomultimers.
4. (Withdrawn) The method of claim 1, wherein the multimeric profilin comprises synthetic peptide fragments of profilin.
5. (Withdrawn) The method of claim 3, wherein the multimeric profilin comprises synthetic peptide fragments that have novel sequences that arise from profilin multimerization
6. (Withdrawn) The method of claim 1, wherein the multimeric profilin comprises peptide fragments made by recombinant DNA technology.
7. (Withdrawn) The method of claim 1, wherein the multimeric profilin comprises monomers selected from the group consisting of celery (Api g4, GENE BANK ACCESSION NO. QPXF37), peanut (Ara h5, GENE BANK ACCESSION NO. Q9SQ19), birch tree pollen (Bet v2, GENE BANK ACCESSION NO. P25816), Bermuda grass (Cyn d12, GENE BANK ACCESSION NO. O04725), soybean (Gly m3, GENE BANK ACCESSION NO. O65809, O65810), sunflower (Hel A2, GENE BANK ACCESSION NO. O81980), latex (Hev b8, GENE BANK ACCESSION NO. CAB51914, O65812, Q9STB6, Q9M7N0, Q9M7M9, Q9M7M8, Q9LE18), Mercurialis annua (Mer a1, GENE BANK ACCESSION NO. O49894), olive tree pollen (Ole e2, GENE BANK ACCESSION NO. P19963, O024170m O24171), timothy grass

(Phl p11, GENE BANK ACCESSION NO. P35079, O24650, O24282), sweet cherry (Pru av4, GENE BANK ACCESSION NO. Q9XF39), pear (Pyr c4, Q9XF27), corn pollen (Zea Pro I, GENE BANK ACCESSION NO. B35081; Zea Pro II, GENE BANK ACCESSION NO. P35080; ZMPro III, GENE BANK ACCESSION NO. P35083; ZmProIV, GENE BANK ACCESSION NO. O22655; ZmProV, GENE BANK ACCESSION NO. Q9FR39), human (profilin I, GENE BANK ACCESSION NO. P07737; Profilin II isoform 1, GENE BANK ACCESSION NO. NP\_444252; and Profilin II isoform GENE BANK ACCESSION NO. NP\_002619, or combinations thereof.

8. (Withdrawn) The method of claim 1, wherein the immunogenic composition comprises pharmaceutically acceptable carriers or diluents.

9. (Withdrawn) The method of claim 1, wherein administration route is selected from the group consisting of parenteral, oral, nasal, inhalant or rectal routes.

10. (Withdrawn) A synthetic peptide that is characterized as:

- (a) including from about 7 to 21 amino acids sequentially linked and selected from the monomeric profilin of Table 3;
- (b) the amino acids include at least one proline; and
- (c) the amino acids include at least one acidic amino acid.

11. (Withdrawn) The synthetic peptide of claim 9, wherein the sequence of the amino acids is the same novel sequence that is found by continuing the sequence from one profilin molecule to the adjoining profilin molecule as shown in FIG. 5 in the binding regions exposed by aggregation.

12. (Withdrawn) A profilin multimer comprising an aggregation of synthetic peptides of claim 10.

13. (Withdrawn) The multimeric form of the plant profilin of claim 11, further defined as heteromultimeric.

14. (Withdrawn) The multimeric form of plant profilin of claim 11 further defined as synthetic.

15. (Withdrawn) Purified multimeric forms of plant profilin having the following characteristics:

- (a) comprising monomeric plant profilin each monomer having an amino acid sequence that each contain at least one cysteine or fragments thereof; and
- (b) having an estimated molecular weight of at least 24 kDa.

16. (Withdrawn) A composition wherein the multimeric profilin is selected from the group of monomeric profilin consisting of celery (Api g4, GENE BANK ACCESSION NO. Q9XF37), peanut (Ara h5, GENE BANK ACCESSION NO. Q9SQ19), birch tree pollen (Bet v2, GENE BANK ACCESSION NO. P25816), Bermuda grass (Cyn d12, GENE BANK ACCESSION NO. O04725), soybean (Gly m3, GENE BANK ACCESSION NO. O65809, O65810), sunflower (Hel A2, GENE BANK ACCESSION NO. O81982), latex (Hev b8, GENE BANK ACCESSION NO. CAB51914, O65812, Q9STB6, Q9M7N0, Q9M7M9, Q9M7M8, Q9LE18), Mercurialis annua (Mer a1, GENE BANK ACCESSION NO. O49894), olive tree pollen (Ole e2, GENE BANK ACCESSION NO. P19963, O024170, O24171), timothy grass (Phl p11, GENE BANK ACCESSION NO. P35079, O24650, O24282), sweet cherry (Pru av4, GENE BANK ACCESSION NO. Q9XF39), pear (Pyr c4, Q9XF27), corn (Zm PROI, GENE BANK ACCESSION NO. P35081; Zm Pro II, GENE BANK ACCESSION NO. P35082; ZmPro III, GENE BANK ACCESSION NO. P35083; ZmProIV, GENE BANK ACCESSION NO. O22655; ZmProV, GENE BANK ACCESSION NO. Q9FR39), human (profilin I, GENE BANK ACCESSION NO. P07737; Profilin II isoform a, GENE BANK ACCESSION NO. NP\_444252; and Profilin II isoform b, GENE BANK ACCESSION NO. NP\_002619, or composition thereof.

17. (Currently Amended) A diagnostic test for allergies, said test comprising:
- (a) obtaining a pharmaceutical composition of multimeric profilin;
  - (b) administering the composition to a subject; and
  - (c) determining a reaction from which ~~allergenicity~~ allergenicity is inferred.

18. (Withdrawn) Use of multimeric profilin or a functional equivalent to hyposensitize a mammal.

19. (Withdrawn) An antibody directed against a synthetic peptide of claim 10.
20. (Withdrawn) An antibody directed against the multimeric profilin of claim 12.
21. (Withdrawn) An antibody against the multimeric profilin of claim 15.

22. (Previously Presented) The method of claim 17, wherein multimeric profilin is selected from a group consisting of naturally occurring, synthetic, or recombinantly made profilin.

23. (Previously Presented) The diagnostic test of claim 17, wherein the profilin occurs as complexes of homomultimers.

24. (Previously Presented) The diagnostic test of claim 17, wherein the multimeric profilin comprises synthetic peptide fragments of profilin.

25. (Previously Presented) The diagnostic test of claim 24, wherein the multimeric profilin comprises synthetic peptide fragments that arise from profilin multimerization.

26. (Previously Presented) The diagnostic test of claim 17, wherein the multimeric profilin comprises peptide fragments made by recombinant DNA technology.

27. (Previously Presented) The diagnostic test of claim 17, wherein the multimeric profilin comprises monomers selected from the group consisting of celery (Api g4, GENE BANK ACCESSION NO. QPXF37) (SEQ ID NO: 1), peanut (Ara h5, GENE BANK ACCESSION NO. Q9SQ19) (SEQ ID NO: 2), birch tree pollen (Bet v2, GENE BANK ACCESSION NO. P25816) (SEQ ID NO: 3), Bermuda grass (Cyn d12, GENE BANK ACCESSION NO. O04725) (SEQ ID NO: 4), soybean (Gly m3, GENE BANK ACCESSION NO. O65809 (SEQ ID NO: 5), O65810 (SEQ ID NO: 6)), sunflower (Hel A2, GENE BANK ACCESSION NO. O81980) (SEQ ID NO: 7), latex (Hev b8, GENE BANK ACCESSION NO. CAB51914 (SEQ ID NO: 8), O65812 (SEQ ID NO: 9), Q9STB6 (SEQ ID NO: 10), Q9M7N0 (SEQ ID NO: 11), Q9M7M9 (SEQ ID NO: 12), Q9M7M8 (SEQ ID NO: 13), Q9LE18 (SEQ ID NO: 14)), *Mercurialis annua* (Mer a1, GENE BANK ACCESSION NO. O49894) (SEQ ID NO: 15), olive tree pollen (Ole e2, GENE BANK ACCESSION NO. P19963 (SEQ ID NO: 16), O024170m (SEQ ID NO: 17) O24171 (SEQ ID NO: 18)), timothy grass (Phl p11, GENE BANK ACCESSION NO. P35079 (SEQ ID NO: 19), O24650 (SEQ ID NO: 20), O24282 (SEQ ID NO: 21)), sweet cherry (Pru av4, GENE BANK ACCESSION NO. Q9XF39 (SEQ ID NO: 22)), pear (Pyr c4, Q9XF27 (SEQ ID NO: 23)), corn pollen (Zea Pro I, GENE BANK ACCESSION NO. B35081 (SEQ ID NO: 24); Zea Pro II, GENE BANK ACCESSION NO. P35080 (SEQ ID NO: 25); ZMPro III, GENE BANK ACCESSION NO. P35083 (SEQ ID NO: 26); ZmProIV, GENE BANK ACCESSION NO. O22655 (SEQ ID NO: 27); ZmProV, GENE BANK

ACCESSION NO. Q9FR39 (SEQ ID NO: 28)), human (profilin I, GENE BANK ACCESSION NO. P07737 (SEQ ID NO: 29); Profilin II isoform 1, GENE BANK ACCESSION NO. NP\_444252 (SEQ ID NO: 30); and Profilin II isoform GENE BANK ACCESSION NO. NP\_002619 (SEQ ID NO: 31), or combinations thereof.

28. (Previously Presented) The diagnostic test of claim 17, wherein the composition comprises pharmaceutically acceptable carriers or diluents.

29. (Withdrawn) The synthetic peptide fragments of claim 24 characterized as:

- (d) including from about 7 to 21 amino acids sequentially linked and selected from the monomeric profilin of Table 3;
- (e) the amino acids include at least one proline; and
- (f) the amino acids include at least one acidic amino acid.

30. (Withdrawn) The synthetic peptide fragments of claim 24, wherein the sequence of the amino acids is the same novel sequence that is found by continuing the sequence from one profilin molecule to the adjoining profilin molecule as shown in FIG. 5 in the binding regions exposed by aggregation.

31. (Withdrawn) The multimeric profilin of claim 17, comprising an aggregation of synthetic peptide fragment of claim 24.

32. (Withdrawn) The multimeric plant profilin of claim 31, further defined as heteromultimeric.

33. (Withdrawn) The multimeric plant profilin of claim 17 having the following characteristics:

- (c) comprising monomeric plant profilin each monomer having an amino acid sequence that each contain at least one cysteine or fragments thereof; and
- (d) having an estimated molecular weight of at least 24 kDa.